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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,139	10/06/2003	Shunpei Yamazaki	740756-2659	9428
22204 NIXON PEABO	7590 04/04/201 ODY, LLP	1	EXAM	INER
401 9TH STRE		WILCZEWSKI, MARY A		
SUITE 900 WASHINGTON, DC 20004-2128			ART UNIT	PAPER NUMBER
			2822	
			MAIL DATE	DELIVERY MODE
			04/04/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurs	10/678,139	YAMAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	MARY WILCZEWSKI	2822				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this com D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on 17 Ma	arch 2011.					
	action is non-final.					
<i>,</i> —	' = -					
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 7-37 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-37</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	·.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	lrawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFF	국 1.121(d).			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTC	D-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 	, ,	-(d) or (f).				
2. Certified copies of the priority documents	, ,					
3. Copies of the certified copies of the prior	•	ed in this National S	Stage Stage			
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	or the certified copies not receive	u.				
Attachment(s)	. 🗖 :					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P					
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

This Office action is in response to the Amendment and Reissue Application

Declaration by the Assignee filed on 17 March 2011. Claims 7-37 are pending in the application. Claims 1-6 have been cancelled.

The finality of the last Office action has been withdrawn.

Oath/Declaration

The reissue declaration filed with this application is defective because it fails to *specifically* identify at least one error which is relied upon to support the reissue application. See 37 CFR 1.175(a)(1) and MPEP § 1414.

The error statement in the declaration filed on 17 March 2011 does not clearly point out which original claim is in error. For example, "Applicants inadvertently included the feature of "forming *a* metal element diffusion film comprising a semiconductor in contact with *said* silicon nitride film" (*emphasis added*) in *claims 1* and 6 of the original patent. This feature is unnecessary for patentability and narrows the claims below a scope which the inventors had a right to claim in the patent. This feature has been changed to recite "forming a metal element diffusion film comprising a semiconductor over the crystallized semiconductor film" (*emphasis added*) in the claims of this reissue application".

Claim Rejections

Claims 7-37 are rejected as being based upon a defective reissue Declaration under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

The nature of the defect(s) in the Declaration is set forth in the discussion above in this Office action.

Claims 7-37 are rejected under 35 U.S.C. 251 as being improperly broadened in a reissue application made and sworn to by the assignee and not the patentee. A claim is broader in scope than the original claims if it contains within its scope any conceivable product or process which would have infringed the original patent. A claim is broadened if it is broader in any one respect even though it may be narrower in other respects.

A broadening reissue application must be **applied for by all of the inventors** (patentees), that is, the reissue oath or declaration must be signed by all of the inventors.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims

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are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 7, 12, 17, and 29-31 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 4, 7, 18, and 19 of U.S. Patent No. 5,700,333 (cited by Applicant in the IDS filed on 22 December 2004). Although the conflicting claims are not identical, they are not patentably distinct from each other because the metal element diffusion film of the pending claims is the same

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as the phosphorous doped silicon layer of claim 4 and the phosphorus-containing layer of claim 18. Dependent claims 7 and 19 recite that the surface of the crystallized semiconductor layer is etched to make the surface of the crystallized semiconductor layer uneven. Since the gettering layer of claim 4 and the phosphorus-containing layer of claim 18 are formed on the crystallized semiconductor layer, the gettering layer or phosphorus-containing layer must necessarily be removed in order to etch the crystallized semiconductor layer and make its surface uneven. Since the gettering layer comprises phosphorus, the defect density of the gettering layer is artificially increased.

Claims 7, 11, 12, 17, 21, 22, 26-28, and 32-37 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 5-8, 36, 37, 41-43, 42, 43, 45-47, 49-51, and 53-61 of U.S. Patent No. 6,821,828.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the because the metal element diffusion film of the pending claims is the same as the semiconductor film which contains the noble gas element in the patented claims Both the metal element diffusion film and the semiconductor film of the patented claims remove the metal element from the crystallized semiconductor film. The semiconductor film of the patented claims contains a noble gas element, therefore, the defect density of the semiconductor film is artificially increased.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY WILCZEWSKI whose telephone number is (571)272-1849. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. Wilczewski/ Primary Examiner, Art Unit 2822